

SECOND PRELIMINARY AMENDMENT  
U.S. APPLICATION NO. 10/660,356  
ATTORNEY DOCKET NO. 2511/102

**In the Abstract:**

**Kindly replace the Abstract of the invention with the following new Abstract:**

Apparatus for the electrical testing of electrical circuits including at least one array of non-contact stimulator electrodes having a multiplicity of individually controlled stimulator electrodes arranged to be linearly disposed adjacent a first side of an electrical circuit to be tested; a signal generator coupled to the at least one array arranged to supply an electrical stimulation signal to each of the stimulator electrodes; and at least two non-contact sensor electrodes, each having dimensions sufficiently large to overlay part of a conductor on the electrical circuit to be tested.